PF 55040

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Example 1:

6 g of a monomer mixture of 0.5355 g of IPDI and 5.4645 g of Tegomer 2311 are mixed with 200 mg of hexadecane and added to a solution of 200 mg of sodium dodecyl sulfate and 24 g of water. After one hour of stirring with the magnetic stirrer at its highest setting, 50 mg of dioctyltin dilaurate catalyst are added, and the miniemulsion is then prepared by two minutes of ultrasonication (Branson Sonifier W450 Digital) at an amplitude of 90% (Branson Sonifier W450) with ice cooling. Subsequently the temperature is raised to 60°C. The reaction is at an end after 2 hours.

10 Particle size: 194 nm Solids content: 19.00%

Molecular weight: 51.3 • 10³ g/mol

Example 2:

Like Example 1; the monomer mixture consists of 1.3456 g of IPDI and 4.6544 g of Tegomer 2111.

Particle size: 198 nm Solids content: 19.96%

Molecular weight: 40.5 • 10³ g/mol

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Example 3:

Like Example 1; with dibutyltin dilaurate (DBTL) as catalyst.

Particle size: 434 nm Solids content: 20.41%

25 Molecular weight: 20.2 • 10³ g/mol

Example 4:

6 g of a monomer mixture of 0.6744 g of IPDI, 5.166 g of Tegomer 2311 and 0.152 g of dodecanediol are mixed with 200 mg of hexadecane and added to a solution of 200 mg of sodium dodecyl sulfate and 24 g of water. After one hour of stirring with the magnetic stirrer at its highest setting, 50 mg of dioctyltin dilaurate catalyst are added, and the miniemulsion is then prepared by two minutes of ultrasonication (Branson Sonifier W450 Digital) at an amplitude of 90% (Branson Sonifier W450) with ice cooling. Subsequently the temperature is raised to 60°C. The reaction is at an end after 2

35 hours.

Particle size: 222 nm Solids content: 19.86%

Molecular weight: 51.3 • 10³ g/mol